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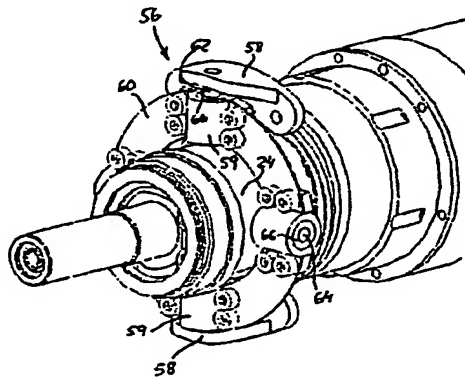
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(54) Title: ORBITAL MACHINING APPARATUS WITH DRIVE ELEMENT WITH DRIVE PINS



(57) Abstract: An orbital machining apparatus for producing a hole in a workpiece by means of a cutting tool comprising a first actuator configured for rotating the cutting tool about its longitudinal center axis during the machining of the hole; a second actuator configured for moving the cutting tool in an axial feed direction substantially parallel to said tool axis; a third actuator configured for rotating the cutting tool about a principal axis; and a radial offset mechanism configured for controlling the radial distance of the center axis of the cutting tool from said principal axis. The third actuator includes a rotating drive element (57) driven by an individual motor, a carrier ring (60) connected to and rotated by the drive element (57) by means of two diametrically opposed, radial drive pins (62) such that the carrier ring (60) may perform a radial sliding movement relative to the drive element (57) while being rotated thereby, and two diametrically opposed, radial carrier guide shafts (64) circumferentially spaced 90 from the drive pins (62) and connecting the carrier ring (60) and an inner cylindrical eccentric body such that the latter may perform a radial sliding movement relative to the carrier ring while being rotated thereby.

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